MARCHANT

LIGHTER ZERO SHIFT

SERVICE INSTRUCTION BOOK

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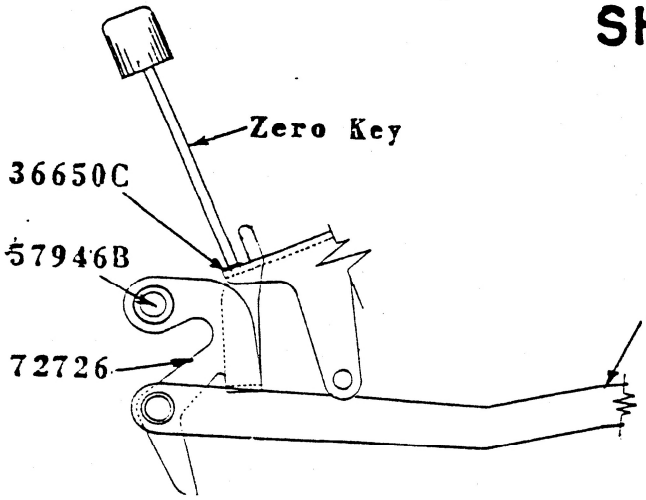

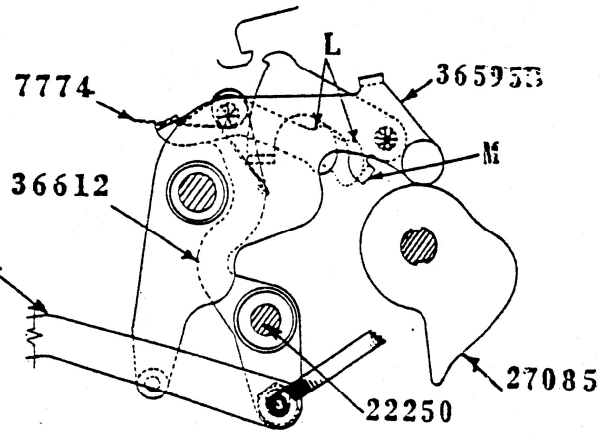

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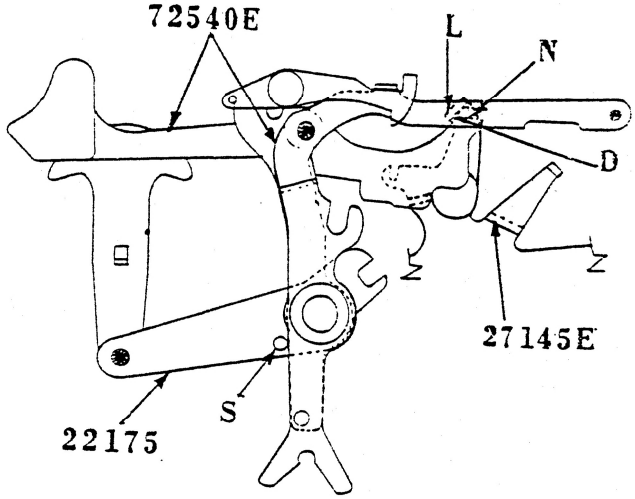
Paragraph 9 and 10 on page 604 is changed as follows to describe the Lighter Zero Shift mechanism.

1. Parallel Bar--36650C has been extended forward to underlie the Zero Key so that depression of the Zero Key will lower the parallel bar the same as the other multiplier keys and thus close the starting switch and open the Setting Clutch as described on page 603 paragraph 7 and 8 of Service Instruction Book.

2. As the Zero Key is further depressed it contacts the Zero Key Bellcrank--72726 rocking it clockwise about shaft 57946B which in turn pulls the Main Clutch Disabling Link--36611 forward. The forward movement of Link--36611 rocks the Main Clutch Disabling Lever--36612 clockwise about shaft of 22250 and positions Main Clutch Disabling Lever Live Point 'L' over ear 'M' on Main Clutch Starting Arm--365953. As the Setting Line rotates and the Starting Cam--27085 rocks the Main Clutch Starting Arm, the ear 'M' contacts live point on 36612 and prevents the opening of the Main Clutch. See Fig. 524 page 436 and paragraph 6 of Service Instructions. A restore operation automatically follows which causes a left shift.



3. When the Carriage Positioning Lever-Right--27145E rotates clockwise to dip the carriage, the live point 'L' on 27145E contacts surface 'D' on the Automatic Shift Control Lever--72540E. The friction of live point 'L' against 72540E tends to drag 72540E rearward and clockwise and consequently prevent the live point 'L' from getting in back of notch 'N' to operate the Automatic Shift Control Lever.

The stud 'S' has been added to the Division Control Positioning Lever to prevent the rearward and clockwise movement of 72540E. As Divi-

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sion Control Positioning Lever --22175 is rotated counter-clockwise when carriage is dipping, the stud 'S' contacts the forward edge of 72540E and prevents its rotation and rearward movement of notch 'N' as described above. By preventing the rotation of 72540E when going into the dip, a positive engagement of live point 'L' with notch 'N' is insured.

The following parts are new parts required for the Lighter Zero Shift mechanism.

7774 used on 36612
22175 replaces 22180
36380E replaces 36380D
36611
36612
36622
36650C replaces 36650B
36685D replaces 36685C
37380C replaces 37380B
72540E replaces 72540D
96050A replaces 96050
96850A replaces 96850

The following parts are not used with the Lighter Zero Shift mechanism.

7125
7371
9009
9050
12642
12643 replaced by 72366
37233
72580
72594A
72694
72703
72705B
72710A
72715A replaced by 72726
72721
72932